

FEATURES

- **MTS/SAP Tuner**
- **Flat Screen Picture Tube**
- **181 Channel Selection-** All VHF/UHF channels plus up to 125 cable channels.
- **PLL Frequency Synthesized Tuning-** Provides free and easy channel selection and lets you tune directly to any channel using the channel number buttons on the remote control.
- **Sleep Timer**
- **Closed Caption Decoder**
- **Auto Shut Off Function-** If there is no signal input from the antenna terminal and no user operation for 15 minutes, the TV will turn itself off automatically.
- **Resume Function-** If the power fails or is disconnected while the TV is on, the TV will turn on automatically when the power resumes.
- **V-CHIP-** Enables parents to prevent their children from watching inappropriate material on TV.
- **Full-Function Remote Control**
- **On-Screen Function Display**
- **S-VIDEO Input-** Allows you to get better picture detail and clarity.
- **Front AV Input**
- **Rear Audio Input**

PRECAUTIONS

- Place your TV in a room with adequate ventilation.
- Keep your TV set away from sources of direct heat, such as heat registers or direct sunlight.
- Do not place your TV on soft surfaces, such as rugs or blankets.
- Leave enough room for air to circulate around the bottom, top and back of the set.

The serial number of this product may be found on the back of the TV. The serial number on your television is unique. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

| | | | |
|----------------------|--|------------------|--|
| Date of Purchase | | Dealer Phone No. | |
| Dealer Purchase from | | Model No. | |
| Dealer Address | | Serial No. | |

IF YOU NEED ADDITIONAL ASSISTANCE WITH SET-UP OR OPERATING AFTER READING OWNER'S MANUAL, PLEASE CALL TOLL FREE 1-877-467-4289 OR VISIT OUR WEB SITE AT <http://www.insignia-products.com>

IMPORTANT SAFEGUARDS

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN




CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.


These warning labels appear on the rear of the cabinet.

1. READ INSTRUCTIONS - All the safety and operating instructions should be read before the appliance is operated.
2. RETAIN INSTRUCTIONS - The safety and operating instructions should be retained for future reference.
3. HEED WARNINGS - All warnings on the appliance and in the operating instructions should be adhered to.
4. FOLLOW INSTRUCTIONS - All operating and use instructions should be followed.
5. CLEANING - Unplug TV from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. ATTACHMENTS - Do not use attachments not recommended by the TV manufacturer as they may cause hazards.
7. WATER AND MOISTURE - Do not use this TV near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. ACCESSORIES - Do not place this TV on an unstable cart, stand, tripod, bracket, or table. The TV may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV.
Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.






THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

9. VENTILATION - Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the TV on a bed, sofa, rug, or other similar surface. This TV should never be placed near or over a radiator or heat register. This TV should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. POWER SOURCES - This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For TVs intended to operate from battery power, or other sources, refer to the operating instructions.
11. GROUNDING OR POLARIZATION - This TV is equipped with a polarized alternating-current line plug(a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. POWER-CORD PROTECTION - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. OUTDOOR ANTENNA GROUNDING - If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting



LIMITED WARRANTY

Insignia Products warrants to you, the original purchaser of this Product, that this product shall be free of defects in material or workmanship for a period of ninety (90) days from the date of purchase as follows:

1. LABOR: During the Warranty Period if this Product is determined to be defective, Insignia will repair or replace the Product, at its option at no charge, or pay the labor charges to any Insignia authorized service facility. After the Warranty Period, you must pay for all labor charges.
2. PARTS: In addition, Insignia will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts for the Warranty Period. After the Warranty Period, you must pay all parts costs.

To obtain warranty service, you must take the Product with your original receipt or other proof of purchase, either in its original packaging or packaging affording an equal degree of protection, to your nearest retail store location of the store or online web site from which you purchased the Product.

This warranty does not cover cosmetic damage or damage due to acts of God, lightning strikes, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Insignia to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States and Canada.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. INSIGNIA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY, REPRESENTATION OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

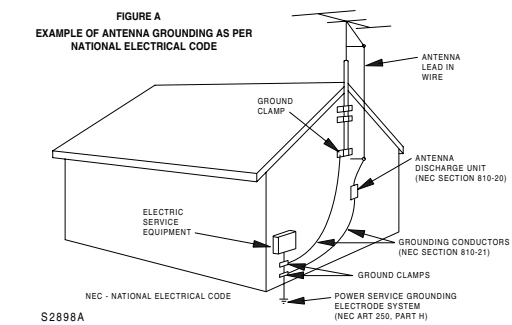
Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state, or province to province.

For customer service please call 1-877-467-4289
www.insignia-products.com
Insignia Products, Richfield, Minnesota, U.S.A.

1EMN20321

Printed in Thailand
L3303UD * * * * *

- structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)
14. LIGHTNING - For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV due to lightning and power-line surges.
 15. POWER LINES - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light of power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
 16. OVERLOADING - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
 17. OBJECT AND LIQUID ENTRY - Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV.
 18. SERVICING - Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 19. DAMAGE REQUIRING SERVICE - Unplug this TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled, or objects have fallen into the TV.
 - c. If the TV has been exposed to rain or water.
 - d. If the TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
 - e. If the TV has been dropped or damaged in any way.
 - f. When the TV exhibits a distinct change in performance, this indicates a need for service.
 20. REPLACEMENT PARTS - When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.
 21. SAFETY CHECK - Upon completion of any service or repairs to this TV, ask the service technician to perform routine safety checks to determine that the TV is in proper operating condition.
 22. HEAT - This TV product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



FCC WARNING - This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Note to CATV system installer:

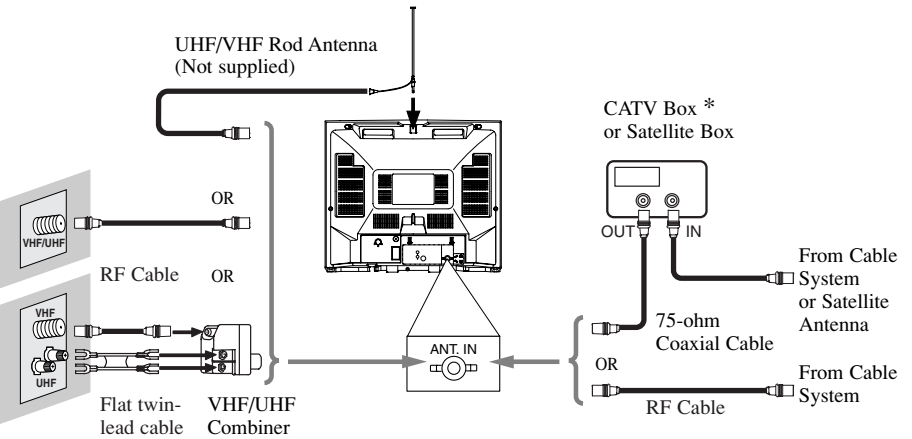
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

PREPARATION FOR USE

CONNECTIONS

Cables used here are available on the market.

[ANTENNA CONNECTION] [CATV/SATELLITE CONNECTION]



*Some cable TV systems use scrambled signals and require a special converter to receive these channels. Consult your local cable company.

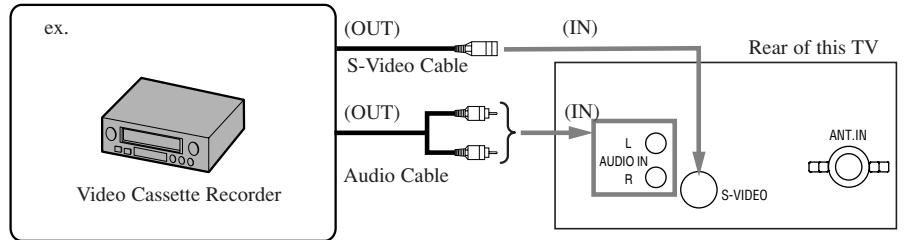
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT AND FULLY INSERT.

Note:

- For your safety and to avoid damages to the unit, unplug the antenna cable from the ANT. IN jack before moving the unit.

[EXTERNAL CONNECTION]

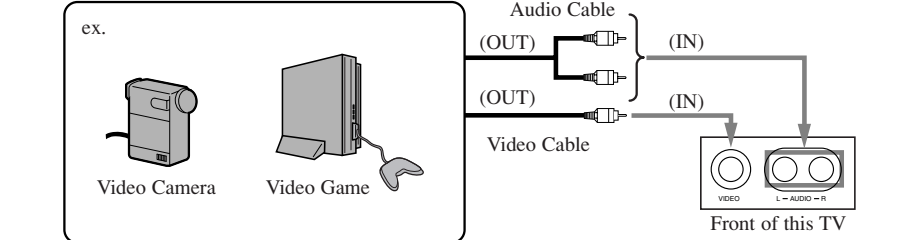
VIDEO1 input (Rear)



Note:

- The AUDIO L jack is for mono input. The sound is heard from both speakers. Use this jack for connecting monaural audio equipment.

VIDEO2 input (Front)



Note:

- The AUDIO L jack is for mono input. The sound is heard from both speakers. Use this jack for connecting monaural audio equipment.

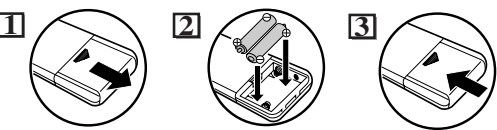
SELECTING AUDIO/VIDEO INPUT

When you use the AUDIO/VIDEO input jacks, select "VIDEO1" or "VIDEO2" mode by hitting [INPUT SELECT] on the remote control. The input mode changes by hitting the button as following:



- To use the jacks on the rear of the TV, select "VIDEO1".
- To use the jacks on the front of the TV, select "VIDEO2".

INSTALLING THE BATTERIES

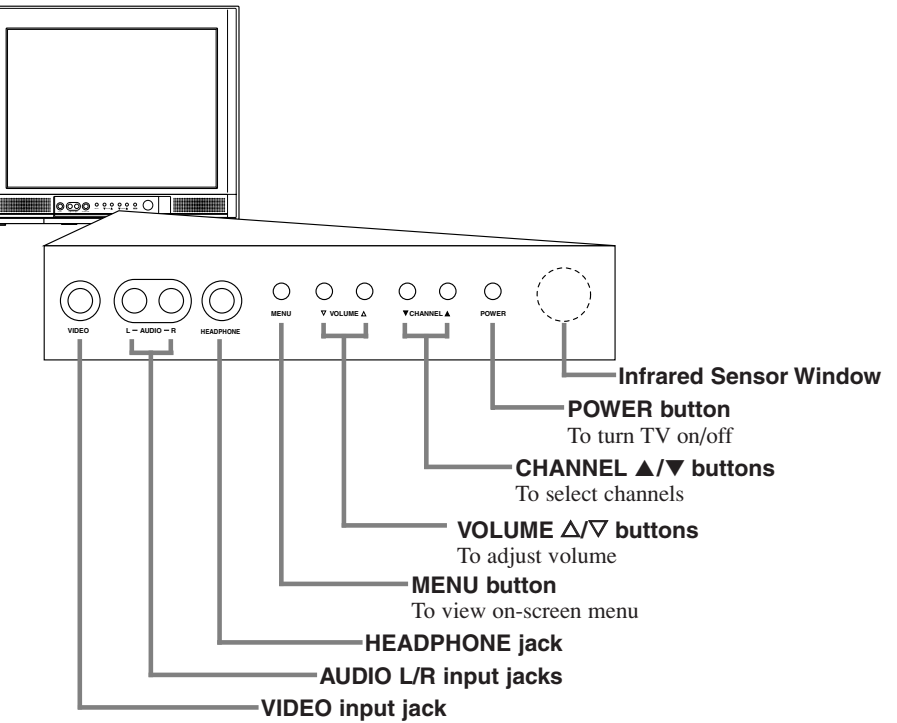
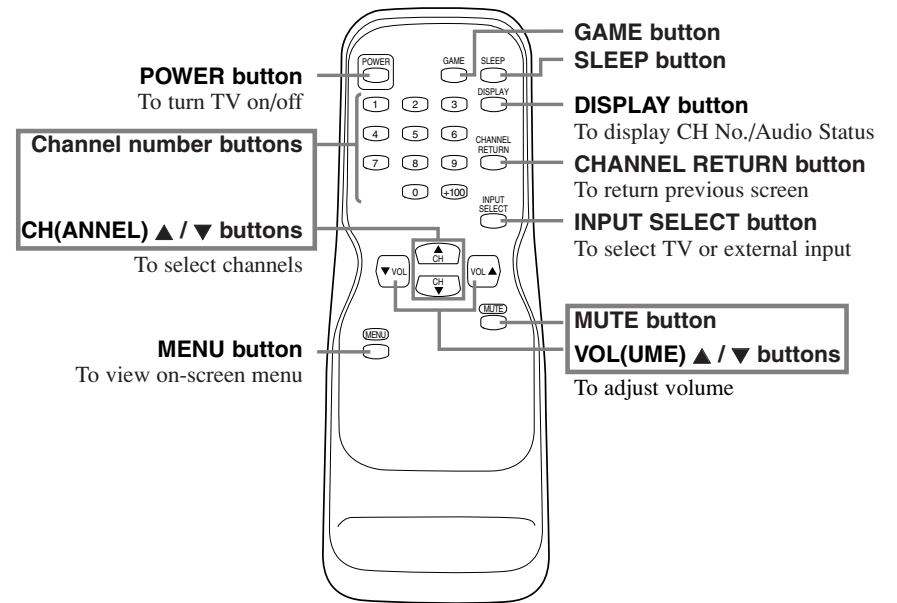


Install two AA batteries (supplied) matching the polarity indicated inside battery compartment of the remote control.

- [BATTERY PRECAUTIONS]**
- Be sure to follow the correct polarity as indicated in the battery compartment. Reversed batteries may cause damage to the device.
 - Do not mix different types of batteries together (e.g. Alkaline and Carbon-Zinc) or old batteries with fresh ones.
 - If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
 - Do not try to recharge batteries not intended to be recharged; they can overheat and rupture.

OPERATIONS

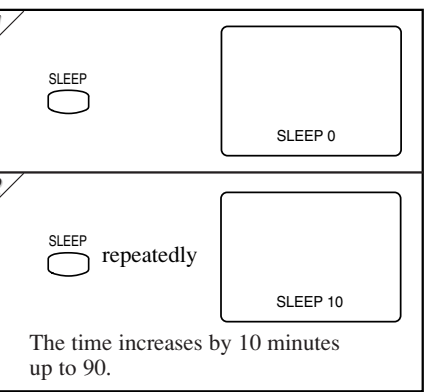
REMOTE CONTROL AND FRONT PANEL FUNCTION



Note:

- If some digits appear in the corner of the screen when the unit is turned on for the first time, hit [POWER] without unplugging the power cord.

SLEEP TIMER SETTING



- Notes:**
- When you disconnect the unit from the AC outlet or when you have a power failure, the sleep time will be lost.
 - To cancel the sleep timer, hit [SLEEP] repeatedly until "SLEEP 0" is displayed.
 - The Sleep Timer Setting display will disappear automatically after 10 seconds of the operation.

OPTIONAL SETTINGS (Continued)

V-CHIP SET UP

This enables parents to prevent their children from watching inappropriate material on TV.

- The limitation is not available for news, sports programs, unedited movies on premium cable channels and Emergency Broadcast System signals.
- When you try to access to a program which is blocked, “PROTECTED PROGRAM by ...” message appears on the TV screen.
- Programming may be rated by the Motion Picture Association of America (MPAA) or according to the Television Parental Guidelines. In order to block any inappropriate programming, set your limits in both MPAA RATING and TV RATING.

1

Select “V-CHIP SET UP”

MENU

CH

CH

VOL

PICTURE CHANNEL SET [ENG] / ESP / FRA
▶ V-CHIP SET UP
CAPTION [OFF]
TV SOUND [MAIN]

2

Enter 4-digit code

1234567890

ACCESS CODE

If you have not set up your personal access code, enter 0000 (default access code).

3

Select a feature to set up

CH

CH

VOL

▶ TV RATING
MPAA RATING
CHANGE CODE

A

B

C

A

[TV RATING SET UP]

4

Select a rating

CH

CH

▶ TV-Y (VIEW)
TV-Y7 () (VIEW)
TV-G (VIEW)
TV-PG () (VIEW)
TV-14 () (VIEW)
TV-MA () (VIEW)

<Selection>

<Rating Category Explanations>

• TV-Y : Appropriate for all children

• TV-Y7 : Appropriate for children seven and older

• TV-G : General Audience

• TV-PG : Parental Guidance suggested

• TV-14 : Unsuitable for children under 14

• TV-MA : Mature audience only

5-1

* Rating with no sub categories

Set to [BLOCK] or [VIEW]

VOL

TV-Y (VIEW)
TV-Y7 () (VIEW)
▶ TV-G (BLOCK)
TV-PG (DLSV) (BLOCK)
TV-14 (DLSV) (BLOCK)
TV-MA (LSV) (BLOCK)

5-2

* Rating with sub categories

VOL

2 times

Select a rating

CH

CH

TV-Y (VIEW)
TV-Y7 () (VIEW)
TV-G (VIEW)
▶ TV-PG () (VIEW)
TV-14 () (VIEW)
TV-MA () (VIEW)

Sub categories

TV-PG (BLOCK)
▶ D (BLOCK)
L (BLOCK)
S (BLOCK)
V (BLOCK)

Set to [BLOCK] or [VIEW]

VOL

TV-PG (BLOCK)
▶ D (VIEW)
L (BLOCK)
S (BLOCK)
V (BLOCK)

<Selection>

<Rating Category Explanations>

• TV-Y7
FV : Fantasy Violence

• TV-PG / TV-14 / TV-MA :
D : Suggestive Dialog (TV-PG, TV-14 only)

L : Coarse Language

S : Sexual Situation

V : Violence

6

To exit the menu

MENU

B

[MPAA RATING SET UP]

4

Select a rating

CH

CH

▶ G (VIEW)
PG (VIEW)
PG-13 (VIEW)
R (VIEW)
NC-17 (VIEW)
X (VIEW)

5

Set to [BLOCK] or [VIEW]

VOL

repeatedly

G (VIEW)
PG (VIEW)
PG-13 (VIEW)
▶ R (BLOCK)
NC-17 (BLOCK)
X (BLOCK)

<Selection>

<Rating Category Explanations>

• G : General Audience

• PG : Parental Guidance suggested

• PG-13 : Unsuitable for children under 13

• R : Restricted; under 17 requires accompanying parent or adult guardian

• NC-17 : No one under 17 admitted

• X : Mature audience only

6

To exit the menu

MENU

Notes (for TV RATING and MPAA RATING):

• You cannot access the setup menu when the “PROTECTED PROGRAM by ...” message appears. Move to an unblocked channel before you hit [MENU].

• When you select a rating and set it to [BLOCK], the higher ratings will be blocked automatically. The lower ratings will be available for viewing.

• When you set the lowest rating to [VIEW], all other ratings will automatically be available for viewing.

C

[CHANGING THE ACCESS CODE]

4

Enter 4-digit code

1234567890

NEW CODE

XXXXX

CONFIRM CODE

5

To exit the menu

MENU

Notes:

• Make sure you enter exactly the same new code in the “CONFIRM CODE” space as one in the “NEW CODE” space. If they are different, the “NEW CODE” space is cleared for redoing.

• Your personal access code will be erased and will return to the default (0000) when a power failure occurs or when you turn off the power using a wall switch. If you have forgotten the code, unplug the power cord for 10 seconds to restore the access code to 0000.

TROUBLESHOOTING GUIDE

Sometimes a performance problem can be easily solved by checking seemingly apparent but often overlooked possibilities. Before arranging for service, check these items. It could save your time and money.

| QUICK SERVICE CHECK LIST | PROBLEM | | | | | | | | | | | |
|--|-----------------------------|----------------|-------------------|--------------------------|----------|---------------------------------|--------------|-----------------------------|-------------------|-----------------|------------------------|------------------------|
| POSSIBLE REMEDY | Remote Control Doesn't Work | Bars On Screen | Picture Distorted | Picture Rolls Vertically | No Color | Poor Reception on Some Channels | Weak Picture | Lines or Streaks in Picture | Ghosts in picture | Picture Blurred | Sound OK, Picture Poor | Picture OK, Sound Poor |
| Try a new channel, if OK, then possible station trouble. | | | X | X | X | X | X | X | X | X | X | X |
| Is TV plugged in? Power at outlet? | X | | | | | | | | | | | X |
| Is TV's power on? | | | | | | | | | | | | X |
| Is antenna or cable connected to terminal on the back of the set? | | | | | X | X | X | | X | X | X | X |
| If outside antenna is being used, check for broken wire or loose connection. | | X | X | X | X | X | X | X | X | X | X | X |
| Check for local interference. | | X | X | X | X | | X | X | | X | X | |
| Turn off the TV and then turn it on after about a minute. | | | | | | | | | | | | X |
| Adjust COLOR control. | | | | | X | | | | | | | |
| Adjust CONTRAST & BRIGHT control. | | | | | | | X | | | X | | |
| Check batteries in remote control. | X | | | | | | | | | | | |
| Move the TV away from the nearby appliances which generate a magnetic field. | | | | | | | | | | | | X |
| Turn off using [POWER], then turn it on again 30 minutes later or so. | | | | | | | | | | | | X |

| Closed Caption Problem | Possible Remedy |
|---|--|
| Misspelled captions are shown. | Spelling errors may pass through uncorrected by the closed captioning production company in a live broadcast. |
| Text is not shown in its entirety or there is a delay of what is being said. | Captions that are delayed a few seconds behind the actual dialogue are common for live broadcasts. Most captioning production companies can display a dialogue to a maximum of 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue. |
| Captions are scrambled with white boxes on the TV screen. | Interference caused by building, power lines, thunderstorms, etc. may cause scrambled or incomplete captions to appear. |
| No captions are displayed in a program which must contain closed caption. | Broadcasters may use a time compression process to the actual program so that additional advertising time can be given. In this case, captions will be lost since the decoder cannot read the compressed information. |
| No captions are displayed when playing a prerecorded videotape with closed caption. | The videotape may be either an illegal copy or the tape duplicating company may accidentally have left out the captioning signals during the copying process. |
| The TV screen shows a black box. | You are in TEXT mode. Select CAPTION [C1], [C2] or [OFF]. |

MAINTENANCE

CABINET CLEANING

• Wipe the front panel and other exterior surfaces of the TV with a soft cloth immersed in lukewarm water and wrung dry.

• Never use a solvent or alcohol. Do not spray insecticide liquid near the TV. Such chemicals may cause damage and discoloration to the exposed surfaces.

PICTURE TUBE CLEANING

Wipe the picture tube of the TV with a soft cloth. Before cleaning the picture tube, disconnect the power cord.

SUPPLIED ACCESSORIES

• Owner's Manual (1EMN20321)

• Remote control unit (NE605UD)

• Batteries ("AA" x 2)

SPECIFICATIONS

GENERAL SPECIFICATIONS

Television system: NTSC-M
TV Standard

Closed Caption System: \$15.119/FCC

Channel coverage
VHF: 2 ~ 13
UHF: 14 ~ 69
CATV: 2 ~ 13, A ~ W, W+1 ~ W+84, A-5 ~ A-1, 5A

Tuning System 181 channel frequency synthesized tuning system

Channel access: Direct access keyboard, programmable scan and up/down

Terminals
Antenna input: VHF/UHF/CATV 75 ohm unbalanced (F-type)

S-Video input: Mini DIN 4-pin jack

Video input: RCA connector x 1

Audio input: RCA connector x 4
(2 (L/R) x Front / 2 (L/R) x Rear)

Headphone: 1/8" stereo (3.5mm)

Stereo Sound System
2 speakers

ELECTRICAL SPECIFICATIONS

Sound output: 1W, 8 ohm x2

OTHER SPECIFICATIONS

Remote control: Digital encoded infrared light system

Operating temperature: 5°C to 40°C (41°F~104°F)

Power requirements: AC120V, 60Hz

Power consumption (Maximum): 74W

Picture tube: 20"

Dimensions: H: 17.13" (435 mm)
W: 19.92" (506 mm)
D: 17.91" (455 mm)

Weight: 44 lbs. (20kg)

• Designs and specifications are subject to change without notice and without our legal obligation.

• If there is a discrepancy between languages, the default language will be English.